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APPLICATION NO. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/966,230 09/28/2001	Charles W. Shattuck	091395-9194 (4132-TC-AU)	5871		
23585 7590 12/02/2004		EXAM	INER		
MICHAEL BEST & FRIEDRICH LLP 3773 CORPORATE PARKWAY	P	HANSEN,	HANSEN, COLBY M		
SUITE 360		ART UNIT	PAPER NUMBER		
CENTER VALLEY, PA 18034-8217		3682			

DATE MAILED: 12/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	n No.	Applicant(s)			
Office Assis Comment		09/966,23	0	SHATTUCK ET AL.			
Office Act	ion Summary	Examiner	_	Art Unit			
		Colby Hai		3682			
The MAILING L	DATE of this communication a	appears on the	cover sheet with the c	orrespondence ad	aress		
THE MAILING DATE - Extensions of time may be a after SIX (6) MONTHS from - If the period for reply specification of the period for reply is specification. - Failure to reply within the second	TUTORY PERIOD FOR REF OF THIS COMMUNICATION available under the provisions of 37 CFR the mailing date of this communication. ed above is less than thirty (30) days, a cified above, the maximum statutory per et or extended period for reply will, by sta ffice later than three months after the ma- ent. See 37 CFR 1.704(b).	N. 1.136(a). In no ever reply within the state od will apply and wi tute, cause the appl	ent, however, may a reply be time story minimum of thirty (30) days I expire SIX (6) MONTHS from ication to become ABANDONE	nely filed s will be considered timel the mailing date of this c D (35 U.S.C. § 133).	y. ommunication.		
Status							
1) Responsive to	communication(s) filed on <u>01</u>	September 2	<u>004</u> .				
2a) This action is F	INAL. 2b)⊠ T	his action is n	on-final.				
•	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4a) Of the above 5) Claim(s) 6) Claim(s) <u>1-12</u> is 7) Claim(s)	s/are rejected.	rawn from cor					
Application Papers					,		
9)☐ The specificatio	n is objected to by the Exam	iner.					
10) The drawing(s)	filed on is/are: a)□ a	accepted or b)	\square objected to by the $\mathfrak l$	Examiner.			
• • • •	ot request that any objection to t		•				
·	wing sheet(s) including the con laration is objected to by the						
Priority under 35 U.S.C.	§ 119						
a) All b) So 1. Certified 2. Certified 3. Copies o application	nt is made of a claim for fore me * c) None of: copies of the priority docume copies of the priority docume f the certified copies of the pon from the International Bur I detailed Office action for a	ents have bee ents have bee riority docume eau (PCT Rul	n received. n received in Applicati ents have been receive e 17.2(a)).	on No ed in this National	Stage		
· <u></u>	Patent Drawing Review (PTO-948) tatement(s) (PTO-1449 or PTO/SB	708)	4) Interview Summary Paper No(s)/Mail D: 5) Notice of Informal F 6) Other:		O-152)		

DETAILED ACTION

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6, 10, and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Condon, Jr. et al. (US Pat. 3,930,692).

Condon, Jr. et al. (US Pat. 3,930,692) discloses a thrust bearing with needle rollers 36, the thrust bearing comprising: a first race component 32 made of a first material and including a flat, circular raceway portion, defined about an axis, and an axially extending lip portion; a plurality of needle rollers 36 arranged radially with respect to the axis for rolling contact with the flat raceway portion of the first race component; a bearing cage 34 retaining the needle rollers 36 and engageable with the lip portion of the first component (figs. 3 & 4) for piloting of the bearing cage 34; and a second race component 22 made of a second material and including a flat portion in contact with the raceway portion of the first race component and, also, including a lip portion 44,50 extending axially and radially from the flat portion and beyond the lip portion of the first race component such that the second race component 22 is engageable by the bearing cage 34 to hold the first race component 32, the second race component 22 and the bearing cage 34 together as an assembly; wherein the axially extending lip portion of the first race component 32 is radially outward of the raceway portion of the first race component 32; wherein the axially extending lip portion of the first race component is radially inward of the raceway portion of the first race component; further comprising an additional thrust race including a circular raceway portion for rolling contact with the rollers 36, the rollers 36 being positioned between the circular raceway portions of the first race component 32 and the

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additional thrust race; wherein the additional thrust race comprises two components 12, 46, 48 made of different materials (as broadly recited, the aforementioned limitation is interpreted as the two components are different parts, occupy different space, thus they utilize different materials from one another); wherein the additional thrust race is engageable by the bearing cage to retain the additional thrust race 46 and the bearing cage 34 together as an assembly wherein the second race component 22 is staked 40,44, at a plurality of locations along a circumference of the lip portion of the second race component (fig. 1), over the lip of the first race component, such that the first race component 32, the second race component 22 and the bearing cage 34 are retained together as an assembly; wherein the second race component 22 includes an extension portion 17,20,26 extending axially from the flat portion of the second race component 22 and in a direction away from the rollers; wherein the first and second race components are formed from sheet metal, the first and second materials being different from each other (as broadly recited, the aforementioned limitation is interpreted as the two components being different, autonomous parts, thus they utilize different materials).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7-9 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Condon, Jr. et al. (US Pat. 3,930,692).

Condon, Jr. et al. (US Pat. 3,930,692) discloses the claimed invention except for the first and second race components being made of specific material having certain characteristic with respect to one another.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have utilized high carbon, bearing quality steel for the first race component, and more ductile and easily welded low carbon steel for the second race component, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416.

Response to Arguments

Applicant's arguments, filed 08/06/2004, with respect to the rejection(s) of claim(s) 1-12 under 35 USC 112, 1st paragraph, 35 USC 112, 2nd paragraph, and 35 USC 102 (b) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Condon, Jr. et al. (US Pat. 3,930,692).

Furthermore, Examiner finds applicant's arguments with regard to the drawing objection persuasive and hereby removes the drawing objection of the previous Office Action.

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Submission of your response by facsimile transmission is encouraged. Group 3600's facsimile number is (703) 872-9306. Recognizing the fact that reducing cycle time in the processing and examination of patent applications will effectively increase a patent's term, it is to your benefit to submit responses by facsimile transmission whenever permissible. Such submission will place the response directly in our examining group's hands and will eliminate Post Office processing and delivery time as well as the PTO's mail room processing and delivery time. For a complete list of correspondence <u>not</u> permitted by facsimile transmission, see MEP. 502.01. In general, most responses and/or amendments not requiring a fee, as well as those requiring a fee but charging such fee to a deposit account, can be submitted by facsimile transmission. Responses requiring a fee which applicant is paying by check <u>should not be</u> submitting by facsimile transmission separately from the check.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Colby Hansen whose telephone number is (703) 305-1036. The examiner can normally be reached on Monday through Thursday and every other Friday from 7:30 PM to 5:00 PM (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bucci, can be reached on (703) 308-3668. Any inquiry of a general nature or

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relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-2168.

Colby M. Hansen

Patent Examiner

Thomas R. Hannon Primary Examiner